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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/008,938	11/08/2001	John J. Pickerd	7136-US	7136-US 4805		
7590 03/04/2005			EXAMINER			
THOMAS F. LENIHAN			DESTA,	DESTA, ELIAS		
TEKTRONIX,	INC.					
M/S 50-LAW			ART UNIT	PAPER NUMBER		
P.O. BOX 500			2857			
BEAVERTON, OR 97077			DATE MAILED: 03/04/2005			

Please find below and/or attached an Office communication concerning this application or proceeding.

Supplemental					
Notice of Allowability	,				

Application No.	Applicant(s)
10/008,938	PICKERD ET AL.
Examiner	Art Unit
Elias Desta	2857

Notice of Allowability	Examiner	Art Unit	
	Elias Desta	2857	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not include will be mailed in due	ed course. THIS
1. 🔀 This communication is responsive to <u>telephone interview was a second to the communication of the communication of the communication is responsive to the communication of the communication is responsive to the communication of the com</u>	rith the applicants' attorney on Febru	ary 24, 2005.	
2. The allowed claim(s) is/are <u>18-30</u> .	•		
3. \boxtimes The drawings filed on <u>08 November 2001</u> are accepted by	the Examiner.		
 Acknowledgment is made of a claim for foreign priority unally All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have More than the priority documents have 	been received. been received in Application No		tion from the
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subm	IENT of this application.		
INFORMAL PATENT APPLICATION (PTO-152) which give			01102 01
 6. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the deponant of t	son's Patent Drawing Review (PTO- s Amendment / Comment or in the C .84(c)) should be written on the drawin he header according to 37 CFR 1.121(c	office action of ngs in the front (not the	
attached Examiner's comment regarding REQUIREMENT			
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. Notice of Informal P	atent Application (PT	O-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ⊠ Interview Summary	(PTO-413),	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	Paper No./Mail Dat 08), 7. ⊠ Examiner's Amendr		
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛭 Examiner's Stateme	ent of Reasons for Allo	wance
of Biological Material	9.		
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Art Unit: 2857

Detailed Action

Examiner's Amendment

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312.

In reference to claim 30: the claim now depends from claim 18 rather than claim 31, and corrected to:

The method as recited in claim [31] 18 further comprising the steps of:

Pausing the scanning step when the violation is indicated by the indicating step; and

Displaying the portions of the long record length data acquisition from the reference memories.

Authorization for this examiner's amendment was given in a telephone interview with <u>Mr. Thomas Lenihan</u> (Attorney for the Applicants) on February 24, 2005.

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Re-issue

Allowance

2. Claims 18-30 are allowed. The following is an examiner's statement of reasons for allowance:

In reference to claim 18: <u>Pieper et al</u>. (U.S. Patent 5,371,851) teaches a test and measurement instrument (see <u>Pieper et al</u>., Abstract). The instrument includes:

- A circuitry for entering parameters to be used to detect violations of predetermined parameters (see <u>Pieper et al.</u>, Fig. 2, members 134 and 136);
- A data acquisition unit for acquiring a signal on the first channel (see *Pieper et al.*, Fig. 1, members 110, 116, and 108);
- A processing circuitry for processing the signal from the first channel (see <u>Pieper et al.</u>, Fig. 1, member 106);
- > A display circuitry for displaying a waveform representation of the signal from the first channel (see <u>Pieper et al.</u>, Fig. 26);
- A reference memory for storing the first reference waveform (see <u>Pieper et al.</u>, column 4, lines 36-40) because the it is inherent that the graphics display have to have a memory in order to retain the waveforms;

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- Comparing circuitry for repeatedly comparing the stored first reference waveform to portions of the first signal for detecting the existence of one of the violations by moving the reference waveform along the signal in time (see <u>Pieper et al.</u>, column 19, lines 30-54); and
- > Circuitry for alerting a user when one of the violations is detected (see <u>Pieper et al.</u>, column 22, line 54 to column 23, line 4).

However, <u>Pieper et al</u>. does not teach a gate comparator to enable a high-speed search for an anomaly or violation in a long record length data acquisition of a test.

Unlike Pieper et al. the claimed invention further includes:

- Defining a plurality of gates with respect to the long record length data;
- Entering a mathematical comparison expression for comparing contents of reference memories;
- Storing the portions of the long record length data in a reference memories;
- Executing the mathematical comparison expression to identify existence of violation;
- Scanning the long record length data acquisition by incrementing the positions of the gates in tandem.

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The remaining claims are dependent upon claim 18 and contain further limitation

1. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elias Desta whose telephone number is (571)-272-2214. The examiner can normally be reached on M-Thu (8:30-7:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marc S. Hoff can be reached on (571)-272-2216. The fax phone numbers for the organization where this application or proceeding is assigned are (703)-308-5841 for regular communications and (703)-308-5841 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)-308-1782.

Elias Desta Examiner Art Unit 2857

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800

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